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NPIC/TSSG/DED-1570-69
8 April 1969

MEMORANDUM FOR : Chief, Technical Services & Support Group

ATTENTION :

SUBJECT : DED Monthly Activity Report for March

GENERAL DIVISION OCCURRENCES

The writing of staff studies and approval requests, evaluating R&D proposals and the monitoring of contracts continues to occupy the major portion of the Development & Engineering Division's time.

R&D BRANCHES I & II

Program Progress

* High Precision Stereo Comparator - The comparator is essentially on schedule. The main effort at this time is in preparation of the clean room [] in which the comparator will be assembled and tested. [] Project Manager visited [] on 19 March to monitor the correlation subcontract and plans to visit [] the week of 14 April to monitor the optical subcontract.

* Simulated Imagery - Proposals have been evaluated. [] has been selected as the Contractor and the approval package has been forwarded for signatures.

* Automatic Stereo Scanner - Major optical problems were discovered and analyzed. Two alternative solutions are being costed out for the 7 April presentation at NPIC by [] personnel.

* Automatic Stereo Scanner System Evaluation - Evaluation Plan from [] is being studied by NPIC. Our comments will be presented to [] in April.

* Image Comparison Microstereoscope - Mechanical design was emphasized during this period; optical and electrical designs are complete. A possible overrun was revealed by [] but no formal request for funds has been received.

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Other

- One [] Fiber-Optics Viewer was digitized. Evaluation of two Fiber-Optics Viewers has been completed.
- In completing the above evaluation of Fiber-Optics Viewers, [] purchased and turned over to NPIC a 9" X 9" grid plate, with accuracies of 0.8 microns for the location of the grid lines.
- The 918 Light Table built by [] was rejected at the pre-delivery inspection. Noise and heat were the major disqualifiers. [] plans to remedy the situation and ship the table by the end of March or the first week in April.
- The final report on the Analysis of Radars as a Function of Photographic Ground Resolution has been received from []
- The Phase I Final Report and mock-up for the Wide-Field, High-Power Anamorphic Stereoviewer were inspected at the contractors and have been delivered to NPIC.
- The staff study entitled "Eyepoint of the Wide-Field, High-Power Anamorphic Stereoviewer" was completed.
- The development objectives entitled "Wide-Field Filar Eyepiece for the High-Power Stereoviewer" were completed.
- OSA Contract [] for four more [] Precision Enlargers was finalized the last of the month. The total for TO#5 was [] Two additional Beacon Precision Enlargers are under contract by WPAFB-USAF.
- During the first week of March, contract negotiations were completed with [] for the Imagery Interpretation Research Program.
- Several Chip Committee Meetings were held in March. [] is presently writing a final report of the Chip Experiment.

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Equipment

- The prototype Binocular Tube Magnifier was returned to NPIC after rework by the contractor. An evaluation was begun immediately.
- The Rear Projection Screen Test Devices constructed by NPIC Equipment Performance Branch of ESD were completed on 25 March 1969.

Coordination

- [] optical consultant, accompanied [] to review serious optical design problems in the Automatic Stereo Scanner.
- [] was visited by [] on 14 March. They showed their 918 Light Table to several PIs and representatives from several components.
- [] briefed representatives from IAS, IEG, SPAD, and DIA on their dry silver systems on 14 March.
- [] attended a two-day meeting at RADC relating to the establishment of an Ad Hoc Committee on tactical reconnaissance under NSIA (National Security Industrial Association). This committee would fulfill the functions of the Automatic Target Recognition Contract Review meetings which are held annually under DOD sponsorship.
- [] visited [] of Naval Research Group, Psychological Sciences Division, Engineering Psychology Branch, Office of Naval Research and [] of Headquarters, Naval Material Command, to determine human factors research presently being performed by the Navy.
- [] prepared a briefing for COMIREX on Ground Resolution Studies.

Training

- [] attended the William & Mary College - A Concentrated Course in Government Contracts - held 10-14 March 1969 at Cape Canaveral, Florida.

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- 25X1 - [] attended the Intelligence Briefing Course 3-26 March 1969 at NPIC.

Travel

- 25X1 - [] attended the contract negotiations for the Imagery Interpretation Research Program at [] 3-7 March 1969.

- 25X1 - 6-7 March 1969 [] visited [] to review maintenance proposal and general progress on the Automatic Stereo Scanner. 25X1

- 25X1 - On 13 March Messrs. [] (OL) visited [] to review the cost-to-complete of the Automatic Stereo Scanner. 25X1

- 25X1 - 20-21 March [] visited [] regarding optical design problems. 25X1

- During the month of March, 7 facilities were visited for a total of 24 man days.

[]
Chief, Development & Engineering Division, TSSG 25X1

Distribution:

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